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Relevance scale **1 [Using hypertext in selecting reusable software components](#)**

Michael L. Creech, Dennis F. Freeze, Martin L. Griss

September 1991 **Proceedings of the third annual ACM conference on Hypertext**Full text available:  pdf(1.05 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 [The COMQUAD component model: enabling dynamic selection of implementations by weaving non-functional aspects](#)**

Steffen Göbel, Christoph Pohl, Simone Röttger, Steffen Zschaler

March 2004 **Proceedings of the 3rd international conference on Aspect-oriented software development**Full text available:  pdf(1.21 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The reliability of non-functional contracts is crucial for many software applications. This added to the increasing attention this issue lately received in software engineering. Another development in software engineering is toward component-based systems. The interaction of both, non-functional aspects and components, is a relatively new research area, which the COMQUAD project is focusing on. Our component model, presented in this paper, enables the specification and runtime support of non-func ...

Keywords: AOSD, QoS, adaptivity, components, non-functional properties**3 [Document reuse and semantics: A dynamic user interface for document assembly](#)**

Miro Lehtonen, Renaud Petit, Oskari Heinonen, Greger Lindén

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**Full text available:  pdf(271.55 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document assembly has turned out to be a convenient approach to corporate publishing and reuse of large collections of documents. Automated assembly of a document reduces the amount of human effort when creating customized documents consisting of document fragments from a collection. However, most methods used require a number of parameters to be defined prior to the assembly process, and providing these parameters in the correct format is seen to be too demanding for an average user. We have des ...

Keywords: BML, XML, XSLT, document assembly, dynamic user interfaces, structured documents**4 [Automating the lexical and syntactic design of graphical user interfaces: the UofA* UIMS](#)**

Gurminder Singh, Mark Green

July 1991 **ACM Transactions on Graphics (TOG)**, Volume 10 Issue 3Full text available:  pdf(3.82 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**5 [Specification of interface components for synchronous data paths](#)**

P. Gutberlet, W. Rosenstiel

May 1994 **Proceedings of the 7th international symposium on High-level synthesis**

Full text available:  pdf(533.14 KB)Additional Information: [full citation](#), [references](#), [citations](#)**6 WREN—an environment for component-based development**Chris Lürer, David S. Rosenblum
September 2001**ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering, Volume 26 Issue 5**Full text available:  pdf(590.37 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Prior research in software environments focused on three important problems---tool integration, artifact management, and process guidance. The context for that research, and hence the orientation of the resulting environments, was a traditional model of development in which an application is developed completely from scratch by a single organization. A notable characteristic of component-based development is its emphasis on integrating independently developed components produced by multiple orga ...

Keywords: Java, Java Beans, component-based software engineering, software components, software environments

7 Multiple mass-market applications as componentsDavid Coppit, Kevin J. Sullivan
June 2000**Proceedings of the 22nd international conference on Software engineering**Full text available:  pdf(179.51 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Truly successful models for component-based software development continue to prove elusive. One of the few is the use of operating system, database and similar programs in many systems. We address three related problems in this paper. First, we lack needed models. Second, we do not know the conditions under which such models can succeed. In particular, it is unclear whether the notable success with operating systems can be replicated. Third, we do not know whether certain specific models ca ...

Keywords: component-based software, package-oriented programming

8 Poster session 2: ICARE software components for rapidly developing multimodal interfacesJullien Bouchet, Laurence Nigay, Thierry Ganille
October 2004**Proceedings of the 6th international conference on Multimodal interfaces**Full text available:  pdf(665.26 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Although several real multimodal systems have been built, their development still remains a difficult task. In this paper we address this problem of development of multimodal interfaces by describing a component-based approach, called ICARE, for rapidly developing multimodal interfaces. ICARE stands for Interaction-CARE (Complementarity Assignment Redundancy Equivalence). Our component-based approach relies on two types of software components. Firstly ICARE elementary components include Devic ...

Keywords: multimodal interactive systems, software components


9 Communication technologies: A new generation of communication aids under the ULYSSES component-based frameworkGeorgios Kouroupetroglou, Alexandros Pino
July 2002**Proceedings of the fifth international ACM conference on Assistive technologies**Full text available:  pdf(1.21 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we introduce a new generation of computer-based communication aids, designed and developed using state of the art software engineering models and architectures. The communicators we present are based on a component-based framework called ULYSSES that aims to simplify the integration of multi-vendor components into low cost products and maximizes modularity and reusability. Following the ULYSSES approach, one can build up powerful and reliable applications, adaptable to various use ...


Keywords: Augmentative and Alternative Communication (AAC), communication aids, communicators, component based development, framework architecture

10 Virtual body language: providing appropriate user interfaces in collaborative virtual environmentsJolanda Tromp, Dave Snowden
September 1997**Proceedings of the ACM symposium on Virtual reality software and technology**Full text available:  pdf(1.11 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**11 Selectors: going beyond user-interface widgets**Jeff Johnson
June 1992**Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  pdf(1.03 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Most UI toolkits and UIMSs make use of widgets, e.g., buttons, text fields, sliders, menus. Designers construct user interfaces by choosing and laying out widgets, then connecting them to application semantics. This approach has four problems. First, most widgets are too low-level; constructing interfaces from them takes too much work. Second, working with widgets focuses attention on appearance and layout issues, rather than on more important semantic design issues. Third, designers can ea ...

Keywords: UIMS, user-interface toolkit, widgets**12 A unidraw-based user interface builder**John M. Vlissides, Steven Tang
October 1991**Proceedings of the 4th annual ACM symposium on User interface software and technology**Full text available:  pdf(1.40 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13 An object-oriented approach to graphical interfaces**

Paul S. Barth

April 1986 **ACM Transactions on Graphics (TOG), Volume 5 Issue 2**Full text available:  pdf(2.23 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An object-oriented system for building graphical interfaces to programs is discussed. The system, called GROW, facilitates the process of creating interfaces that are highly interactive (including direct manipulation and animation), rich in layout structure, and effectively reusable across applications. These properties are achieved through three techniques: object-based graphics with taxonomic inheritance, interobject relationships such as composition and graphical dependency, and separati ...

14 Component specializationGustavo Bobeff, Jacques Noyé
August 2004**Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**Full text available:  pdf(285.59 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Component-Based Software Development (CBSD) is an attractive way to deliver generic executable pieces of program, ready to be reused in many different contexts. Component reuse is based on a black-box model that frees component consumers from diving into implementation details. Adapting a generic component to a particular context of use is then based on a parameterized interface that becomes a specific component wrapper at runtime. This shallow adaptation, which keeps the component implementation ...

Keywords: component generator, component-based software development, partial evaluation, program slicing**15 Modeling methodology: Architectures and languages for model building and reuse: organization and selection of reconfigurable models**Antonio Diaz-Calderon, Christiaan J. J. Paredis, Pradeep K. Khosla
December 2000**Proceedings of the 32nd conference on Winter simulation**Full text available:  pdf(314.60 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper introduces the concept of reconfigurable simulation models and describes how these models can be used to support simulation-based design. As in object-oriented programming, a reconfigurable model consists of a separate interface and multiple implementations. An AND-OR tree represents which implementations can be bound to each interface. From the resulting model space, a designer can quickly select the simulation model that is most appropriate for the current design stage. We conclude ...

16 Contigra: an XML-based architecture for component-oriented 3D applications

Raimund Dachsel, Michael Hinz, Klaus Meißner

February 2002 **Proceeding of the seventh international conference on 3D Web technology**

Full text available:  [pdf\(368.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Even though numerous Web3D technologies exist, most of them do not support a high-level, multi-disciplinary authoring process. Moreover, concepts of reuse are rarely provided. A component-based approach is introduced with the CONTIGRA architecture to construct interactive, three-dimensional applications, either stand-alone or web-based. The approach is entirely based on declarative XML documents describing the component implementation, its interface, as well as component configuration and compo ...

Keywords: 3D components, 3D user interfaces, 3D widgets, XML schema, component-based development, contigra, extensible 3D (X3D), virtual environments

17 XXL: a dual approach for building user interfaces

Eric Lecolinet

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(1.96 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: distributed interfaces, interface builders, iterative development, scripting languages, textual and visual equivalence, user interface software

18 Interfaces to databases: A framework for user-interfaces to databases

Kenneth J. Mitchell, Jessie B. Kennedy, Peter J. Barclay

May 1996 **Proceedings of the workshop on Advanced visual interfaces**

Full text available:  [pdf\(1.96 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


A framework for user-interfaces to databases (IDSs) is proposed which draws from existing research on human computer interaction (HCI) and database systems. The framework is described in terms of a classification of the characteristic components of an IDS. These components, when progressively refined, may be mapped to a conceptual object-oriented language for the precise specification of the IDS. A prototype system is presented, showing the potential for automated mapping of a language specifica ...

Keywords: conceptual modelling, direct manipulation interfaces, human-computer interaction (HCI), user-interfaces to databases

19 Chisel: a system for creating highly interactive screen layouts

G. Singh, M. Green

November 1989 **Proceedings of the 2nd annual ACM SIGGRAPH symposium on User interface software and technology**

Full text available:  [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The UofA* User Interface Management System (UIMS) generates graphical user interfaces based on a high-level description of semantic commands supported by the application. A main part of the UIMS, called Chisel, generates the presentation component of interfaces. Chisel selects interaction techniques, determines their attributes, and places them on the screen of the display device. While doing so it is capable of considering device properties, end user's preferences, and ...

20 Component selection and matching for IP-based design

G. Martin, R. Seepold, T. Zhang, L. Benini, G. De Micheli

March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  [pdf\(170.22 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

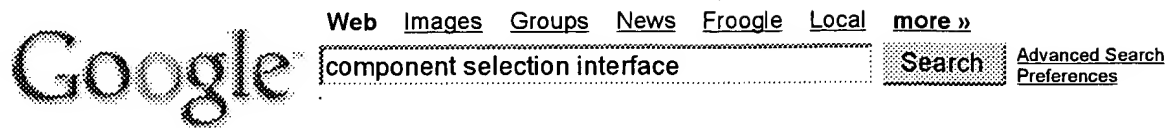
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